

FEMP *Monthly Update*

FEDERAL ENERGY MANAGEMENT PROGRAM

JANUARY 2004

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The ***FEMP MONTHLY UPDATE*** is prepared expressly for the Department of Energy's Office of Federal Energy Management Programs (FEMP). The purpose of the ***UPDATE*** is to provide FEMP management staff with timely information on topics relevant to the program. This includes the status of pending Federal and state legislation and summaries of public and private sector energy-related activities. The ***FEMP MONTHLY UPDATE*** is prepared for FEMP by Energetics, Incorporated, (202) 479-2748.

DOE BULLETIN BOARD

Short Term Energy Outlook, Energy Information Administration (EIA), January 2004.

The December 2003 average motor gasoline price (regular unleaded gasoline) fell to \$1.48 from \$1.51 in November. With high crude oil costs and tight inventory, pump prices are expected to increase monthly until late spring. The West Texas Intermediate expects prices to average \$31.35 per barrel for the next year, which will exceed last year's price by 19 cents. Increasing world demand for oil combined with OPEC restraint is expected to keep oil inventories low and prices high for 2004. Total OPEC crude production is expected to average 27 million barrels per day, with non-OPEC oil totaling 3 million barrels per day in the 2003-2004 time period.

Electricity demand remained consistent with 2003 levels. In 2004, nuclear generation is expected to increase 3.6 percent when out of service nuclear plants are back online. Hydroelectric generation is expected to increase in 2004 and 2005 if normal precipitation occurs. Renewable energy sources, especially wind, are expected to expand through 2005.

Natural gas prices are expected to stay around \$5 million Btu, which is the forecasted average price for 2004.

The outlook for winter 2003-2004 household heating bills varies by fuel when compared to winter 2002-2003: natural gas-heated homes: up 8 percent; heating oil users: down 4 percent; propane-heated households: up 3 percent; and homes with electric heat: up about 2 percent.

The EIA has prepared the *Annual Energy Outlook 2004: With Projections to 2025*, Outlook forecasts and analyzes domestic energy supply, demand, and prices through 2025. Outlook also includes a summary of current key energy issues and a review of energy legislation and regulations.

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CONGRESSIONAL ACTIVITIES

CONGRESSIONAL SCHEDULE

Republican Retreat Beginning Thursday, House and Senate Republicans will participate in a party retreat in Philadelphia. The purpose of the retreat is to discuss strategies for the 2004 Congressional agenda. Topics include, but are not limited to:

- Pending energy legislation (*H.R. 6*) including the potential for scaling back the \$31 billion cost of the bill, which includes approximately \$24 billion in financial incentives and tax cuts.
- Republican economic and job development proposals

STATUS OF PENDING APPROPRIATION BILLS OF INTEREST TO FEMP

FY 2004 Appropriations

Last week, the Senate passed and the President signed *H. R. 2673 (H. Rpt. 108-402)*, an \$820 billion omnibus bill combining the seven remaining FY 2003 appropriations bills. Five of the seven bills of interest to readers of the *FEMP Monthly Update* include:

- *H.R. 2673/S. 1427 – FY 2004 Appropriations for Agriculture, Rural Development, Food and Drug Administration, and Related Agencies*
- *H.R. 2799/S. 1585 – FY 2004 Appropriations for Commerce, Justice, State, and the Judiciary*
- *H.R. 2660/S. 1356 – FY 2004 Appropriations for Labor, Housing and Urban Development, and Education*
- *H.R. 2989/S. 1599 – FY 2004 Appropriations for Transportation, Treasury, and Independent Agencies*

- *H.R. 2861/S. 1584 – FY 2004 Appropriations for Veterans' Affairs, Housing and Urban Development, and Independent Agencies*

STATUS OF PENDING AUTHORIZATION BILLS OF INTEREST TO FEMP

H.R. 6 – Energy Policy Act of 2003 During the State of the Union Address, President Bush urged Congress to pass the energy bill. In his remarks, he said:

...I urge you to pass legislation to modernize our electricity system, promote conservation, and make America less dependent on foreign sources of energy.

The bill's Conference Report (*H.R. 108-375*), passed the House last year, but stalled in the Senate over issues not related to energy efficiency. This week, Congressional Republicans plan to develop a strategy for moving the bill forward during a Philadelphia strategic planning retreat in which a number of other issues will be addressed. Last week, Senator Pete Domenici (R/NM), Chairman of the Energy Conference Committee and the Committee on Energy and Commerce released the following statement regarding the status of *H.R. 6*:

For the third consecutive year, President Bush has called on Congress to pass an energy bill. We are closer to that goal today than we have been any time in these last three years. We are almost there. I am confident I can nail down the votes we need for cloture, but I'm still concerned about the budget points of order that will likely be raised.

In the next few weeks, I will be working closely with House leadership to see what steps we can take to get the last few votes we need for final passage. The one option I absolutely will not consider is breaking this bill up. I will resist such an effort with every resource I have. It's the start of the year and we're only two votes down. It's far too early to talk about breaking this bill up. I intend to focus on the final passage. I urge my colleagues to do likewise.

Senator Domenici's reference to "budget point of order" deals with Congressional concern, especially expressed by fiscal conservatives, over the cost of the bill. The President asked for \$13 billion but the conference report resulted in a bill totaling almost \$31 billion to cover a range of programmatic activities and new and extended tax credits.

Last week, Senate Majority Leader Bill Frist (R/TN) said that Congress may not be able to pass an energy bill this year. And while both Bill Frist and Pete Domenici oppose breaking up the bill in order to pass key titles, some Congressional members support the idea. Suggestions that are floating around Washington include attaching the ethanol provisions to the Transportation reauthorization bill, which is expected to be taken up in the Senate this week. Two committees, Banking and Finance have postponed scheduled mark ups for this week for their transportation-related bills; the mark ups are expected to be shaped in part by comments provided in a recent Congressional Budget Office analysis of highway funding options.

Other members have suggested passing as a separate, stand-alone bill, the electricity title. In fact, Senator Maria Cantwell (D/WA) introduced *S. 2014 – Electric Reliability Act of 2004*, which focuses on the reliability of electric power in response to the August 2003 black out (refer to Appendix B for bill summary). Some members are proposing the attachment of the renewable energy tax credit provisions of *H.R. 6* to a bill titled, Foreign Sales Corporation; however, no action in this regard has been reported. Senate Minority Leader Tom Daschle (S/SD) continues to urge Republicans to delete the MTBE

provision from the energy conference report; this provision protects manufacturers of MTBE from liability for ground water contamination. House Republicans has thus far refused to agree to this request.

Refer to www.eere.energy.gov/femp/resources/initiatives.html - Legislative Databases for the status of pending energy-related legislation.

NEW LEGISLATIVE INITIATIVES OF INTEREST TO FEMP

- See [Appendix A](#) – New Legislation of Interest to FEMP

HEARINGS OF INTEREST OF FEMP

- See [Appendix B](#) – Hearings Schedule

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FEDERAL AGENCY **ACTIVITIES**

DEPARTMENT OF DEFENSE (DOD)

DOD has requested agency installations to provide information with respect to the Administration's 2005 Base Realignment and Closure program. For example, each installation is required to report on size and type of facilities; the resulting data will be submitted to an independent, bipartisan panel. The role of the panel is to submit base closure recommendations to Congress. Secretary of Defense Donald Rumsfeld said that the 2005 closings could be larger than all previous rounds combined with an expected savings of billions of dollars. (Source: *www.Govexec.com*, January 06, 2004)

DEPARTMENT OF ENERGY (DOE)

Annual Grants to States In early January, DOE's National Energy Technology Laboratory (NETL) announced in the *Federal Register*, the agency's plans to provide financial assistance to states and U.S. Territories to conduct projects funded by the Office of Energy Efficiency and Renewable Energy Programs. A total of \$14 million from FY 2004 funds have been set aside for the 2004 State Energy Program Special Projects Funding Opportunity, which is in its ninth year of operation. Program offices providing funding include:

- [Federal Energy Management Program \(\\$400,000\)](#)

- Building Codes and Standards (\$1.650 million)
- Solar Technology Program (250,000)
- Building America (\$400,000)
- Rebuild America (\$3 million)
- Industrial Technology Program (\$1.5 million)
- Distributed Energy and Electric Reliability (\$800,000)
- Biomass (\$600,000)
- State Wind Energy Support (\$250,000)
- Clean Cities (\$5 million)

For further information, contact Kelly McDonald at NETL at 304-285-4113 or Kelly.mcdonald@netl.doe.gov.

On January 12, Secretary of Energy Spencer Abraham attended a ribbon-cutting ceremony at the first energy-efficient building demonstration project in Beijing, China. During his trip, he signed a US-China Green Olympic Protocol for the 2008 Summer Olympics. Mr. Abraham expressed DOE's support to "promote the use of clean energy technologies as well as to provide technical assistance in energy and environmental policy and planning for the 2008 Summer Olympic Games." The Secretary commended the establishment of 11 interagency teams that will work with China on energy, air, water quality, and transportation issues in preparation for the Olympic Games. He said,

We also held two successful Joint Working Group Meetings in Beijing in 2002 and 2003, and have developed proposals for further cooperation. Today we take another big step with the signing of the Green Olympic Protocol, which will transform the Statement of Intent we signed into a legally binding international agreement. A few moments ago, I had the opportunity to join Minister Xu for the ribbon-cutting ceremony for this new building. It demonstrates how the U.S. and China – both our governments and private sectors – can work together to promote clean energy solutions. I hope that this first Energy Efficient demonstration project in Beijing will lead to more widespread use of clean energy technologies in Beijing, particularly for the 2008 Olympic Games, and throughout China.

The United States and China face similar challenges and exciting opportunities in the energy sector. We are the two largest energy consumers in the world and energy security and environment protection are important priorities for both countries.

National Laboratory Activities

Pacific Northwest National Laboratory (PNNL) Green power generated from methane gas produced at a nearby landfill will power PNNL's Marine Sciences Laboratory in Sequim, Washington.

PNNL's purchase of 2,694,000 kWh of green power for the Sequim facility will serve 100 percent of the facilities energy needs. The laboratory has also purchased 9,306,000 kWh of wind and small hydro-

generated power for its main research facility located in Richland, Washington. Mike Moran of PNNL said, “e are looking to further diversify our renewable energy portfolio by purchasing solar power from the Bonneville Environmental Foundation and off-shore wave energy from the Clallam PUD.” (Source: www.pnnl.gov, December 19, 2003)

National Renewable Energy Laboratory (NREL) DOE and NREL introduced a Zero Energy Home concept at the 2004 International Builders' Show in Las Vegas, Nevada, earlier this month that achieves net zero energy consumption by incorporating energy efficient construction and renewable energy technologies. The 5,300 square foot Ultimate Family Home built by Pardee Homes served as a show home for the annual builders' convention. Tim Merrigan of NREL said, "The Ultimate Family Home shows that energy efficiency and solar energy can be incorporated into attractive homes that come with all of the features homebuyers are looking for." ENERGYSTAR[®] standards are upheld using the ComfortWiseSM program and other efficient installations. Other groups involved in the Zero Energy Homes initiative include ConSol, Davis Energy Group, NAHB Research Center, and Steven Winter Associates. (Source: www.nrel.gov, January 20, 2004)

DEPARTMENT OF TRANSPORTATION (DOT)

Corporate Average Fuel Economy (CAFE) Standards In late December, DOT's National Highway Traffic Safety Administration issued two separate notices regarding CAFE standards. The agency has been directed to examine the standards with respect to reforming the standards (e.g., enhance vehicle efficiency while maintaining safety). The announcement includes a proposed rulemaking in order to solicit public comments on the “structure” of the current standard program. Comments will be accepted until April 27, 2004; for more information, visit the DOT web site at <http://dms.dot.gov>.

ENVIRONMENTAL PROTECTION AGENCY (EPA)

Water Efficiency Next month, EPA plans to conduct the third in a series of four, one-day public meetings on water efficiency. The workshop, “Market Enhancement Opportunities for Water Efficient Products,” will address landscape irrigation products. The workshop series brings together various stakeholders, including Federal, state, and local government officials, private industry, and other interested parties to discuss water efficiency technologies and exchange information. The third workshop will be held on February 17 in Phoenix, Arizona, and the fourth meeting will be held in March in Seattle, Washington. For meeting registration information, go to www.epa.gov/owm/water-efficiency.

FEDERAL ENERGY REGULATORY COMMISSION (FERC)

The Midwest ISO and PJM Interconnection filed a joint operating agreement with FERC to accommodate reliable flow of more power between the Atlantic and Midwestern regions. The operators will exchange more information about power movement, increase communications, and enhance joint emergency plans. Richard Wodyka of the PJM said, “The (agreement) resolves virtually all seams issues.” (Source: *Reuters*, December 31, 2003)

WHITE HOUSE

FY 2005 Budget Request President Bush is scheduled to submit his FY 2005 Budget Request to Congress on Monday, February 2. Recent reports suggest that the budget request will include less than a one

percent increase except for Defense and Homeland Security programs. Homeland Security programs are expected to receive a 9.7 percent increase over FY 2004 funding.

ATLANTA REGION

No new activities of interest to report.

BOSTON REGION

No new activities of interest to report.

CHICAGO REGION

No new activities of interest to report.

DENVER REGION

The Department of Agriculture has announced plans to install a fuel cell in a facility at Big Goose Range Station in Wyoming. The project will include a 10-kW solid oxide fuel cell in barracks; the project will also include the installation of water storage tanks, a new generator, and a photovoltaic system. For additional information on Solicitation Number RMAST-04-032, contact Noella Bond at 303-275-5393.

PHILADELPHIA REGION

No new activities of interest to report.

SEATTLE REGION

No new activities of interest to report.

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MISCELLANEOUS **ACTIVITIES**

Delegates at the European Conference for Renewable Energy (ECRE) in Berlin this month struggled to overturn the European Commission's (EU) impasse for setting an EU renewable energy target for 2020. Members attending the ECRE called for the EU to aim for 20 percent renewable energy by the year 2020, but their recommendation contained no specific measures for achieving the proposed target. Some delegates argued that the EU may not meet the existing 2010 target for procuring 12 percent renewable energy. The main issue of contention between delegates is whether to engage in a

feed-in model, which provides generators guaranteed minimum prices for electricity, or a market-based system wherein electricity suppliers are given a renewables quota and the opportunity to purchase tradable green certificates. (Source: *Environment News Service*, January 21, 2004)

STATE AND LOCAL GOVERNMENT ACTIVITIES

GENERAL ANNOUNCEMENTS

A partnership of over 160 environmental, municipal, and public health organizations has been partnered as the New England Climate Coalition (NECC). The NECC supports state programs that renounce global warming. In conjunction with the Northeast Sustainable Energy Association (NESEA), the NECC is soliciting signatures for a letter that will be presented to six New England governors in support of state commitments – outlined in the region’s Climate Change Action Plan in 2001– to meet short- and long-term goals for reducing greenhouse gas emissions. Coalition goals include reducing pollution to 1990 levels by 2010 and reducing emissions by 75 to 85 percent in the long term. Meghan Houlihan of the NESEA said, “Renewable energy businesses throughout New England have much to gain from initiatives that will reduce global warming...By investing in new, cleaner technologies, states will provide the economic impetus that the renewable energy industry in New England needs in order to flourish.” (Source: *SolarAccess.com News*, January 8, 2004)

ATLANTA REGION

No news of interest to report.

BOSTON REGION

► General State Activities

The Massachusetts Technology Collaborative and the University of Massachusetts are co-sponsoring a feasibility study on a wind turbine test tower above a wastewater treatment plant in Falmouth, Massachusetts. Projected cost savings for the energy project is \$200,000 annually. The purpose of the study is to assess the value in generating municipal power versus purchasing from a utility provider. Falmouth Planning Director George Merservey said, “We should see wind turbines up and turning by the end of 2004 (on the South Shore of Massachusetts)...Everyone is very excited about the idea of being able to utilize local resources. Everyone sort of realizes that we have an obligation to do it.” The Town of Falmouth could vote as early as May 2005, to build a permanent turbine if the study proves wind generation to be cost effective. Other Massachusetts towns such as Eastham, Harwich, Orleans and Barnstable are also considering using wind energy to produce power. (Source: *Cape Cod Times*, January 9, 2004)

The New York State Energy Research and Development Authority (NYSERDA) is seeking proposals for Round VII of the agency’s Clean-Fueled Bus Program. Approximately \$4.25 million is available for a Clean-Fueled Bus Project or in combination with a Clean-Fuel Infrastructure Project. Municipalities, school districts, state agencies, departments, and public authorities may apply for funding

by the April 7, 2004 deadline. For more information visit the NYSERDA website at www.nyserda.org/833PON.HTML.

CHICAGO REGION

► **General State Activities**

The State of Iowa is pursuing an initiative to use underground aquifers to store wind power generated from 400state-based wind turbines. Collectively, the turbines produce 423 MW of wind power. The Iowa Stored Energy Project would be the first such facility to use wind power to compress air, which could then be released on demand to produce electricity. (Source: *The Dispatch*, January 6, 2004)

The Ames, Iowa, City Council may consider incorporating renewable power into the resource mix for city facilities. The Electric Utility Operations Review and Advisory Board told council members that compliance with clean-air mandates on the existing electric power plant may point to green power as a better option. A long-term study on future energy needs for the city will be completed in May by the advisory board, which will be presented to the city council. The study will be used to establish a 20-year energy plan for the city. (Source: *Mid-Iowa News*, January 14, 2004)

DENVER REGION

► **General State Activities**

The Colorado state legislature will consider a bill to require Xcel Energy and other utilities to reduce customer's energy use by 0.5 percent per year, for 15 years and offer, at no cost, energy-saving kits such as faucet aerators, low-flow shower heads, and compact fluorescent light bulbs to customers. Analysts project that nearly \$1 billion in saved energy costs could result over the life of the program. Utilities could raise customer rates by about one percent to cover costs resulting from passage of the legislation. Bill sponsor Betty Boyd (D/Lakewood) said, "These types of programs are the fastest, cheapest way to take a big bite out of your energy bill." Xcel Energy has initiated a five-year plan to save 123 MW of electricity through conservation and energy efficiency measures for business customers. (Source: *Denver Post Business Writer*, January 16, 2004)

PHILADELPHIA REGION

► **General State Activities**

In January, Maryland's General Assembly overrode Governor Robert Ehrlich's (R) veto of a 2003 energy efficiency standards bill, making the state the first to pass into law, such strict appliance standards. The legislation will bring \$600 million in energy savings to the state through 2020 by covering products such as torchiere lighting fixtures, ceiling fans, low-voltage dry-type transformers, commercial refrigerators and freezers, traffic signal modules, illuminated exit signs, large packaged air-conditioning equipment, unit heaters, and commercial clothes washers. Steven Nadel of the American Council for an Energy-Efficient Economy (ACEEE) said, "What Maryland has done today may reach far beyond its borders. It encourages other states to take similar action, and pushes Congress and product manufacturers to come to consensus at the national level." For more information on the standards and

their savings potential, visit an assessment produced by ACEEE located at <http://aceee.org/pubs/a016full.pdf>. ACEEE has also produced a report chronicling the efforts of other states to implement utility efficiency programs and building energy codes. The report, entitled *Energy Efficiency's Next Generation*, can be accessed at www.aceee.org/pubs/e031full.pdf.

Virginia's state legislature is considering three electric restructuring bills in the General Assembly this session. One bill would extend capped electric rates under current legislation for three years until 2010. Another bill would keep rates capped until 2007, delaying competition. A third bill would allow state regulators to set rates indefinitely to delay competition. Deputy Attorney General Judith Jagdmann said floor discussion of the bills included amendments that have "variations of the same theme - slow down or stop." (Source: *Daily Press*, January 14, 2004)

SEATTLE REGION

No news of interest to report.

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UTILITIES AND SUPPLIER ACTIVITIES

GENERAL ANNOUNCEMENTS

► ***Restructuring Activities***

Students in the College of Engineering at the University of Wisconsin-Madison have developed a system where a network of local generators can reliably disconnect from the larger power supply. The system would prevent a cascading failure from occurring, and allow for mission-critical entities to stay in operation. The system is comprised of a microgrid, which consists of generators that can separate their loads from the main distribution system to isolate mission critical loads from a power failure. The microgrid system technology is also more energy efficient because the system's small generators can be located in areas that could benefit from waste heat emitted by the generators. This could increase the amount of usable energy to nearly 90 percent, without the use of complex heat distribution systems. The University may work with the California Department of Energy and DOE's Sandia, Oak Ridge, and Lawrence Livermore National Laboratories to further develop the system. (Source: *AScribe Newswire*, December 9, 2003)

ATLANTA REGION

► ***Restructuring Activities***

Almost 80,000 residential and commercial customers have signed up for Dominion Virginia Power's Energy Choice pilot programs, which have been approved by the State Corporation Commission. The programs offer competitively bid power prices to customers through July 1, 2007. Customers may return to their current rate at any time during the pilot; the current utility rate is capped through July 1, 2007. David Koogler of Dominion Virginia Power said, "What this shows is clear, broad-

based support and a desire for energy choice among our Virginia customers...Consumers, both residential and business, want and deserve choices for various goods and services and electricity supply should be no different.” (Source: www.energymarketers.com)

BOSTON REGION

► ***Restructuring Activities***

Large commercial and industrial customers in the State of New Hampshire received approval to purchase electricity from competitive suppliers. The New Hampshire Public Utilities Commission (PUC) approved on November 21, a 100 MW Retail Energy Service program that will provide credits to large customers to shop for better energy prices. The program begins on February 1, 2004, and ends on February 1, 2006. Customers who select a competitive supplier will receive a per-kWh credit toward the energy portion of their electric bills. According to the PUC, the program will “allow non-utility suppliers to market energy successfully to the eligible PSNH customers [and will result in] little or no harm to customers remaining on transition service.” Several businesses supporting the program include Freedom Energy Partners LLC, Select Energy, Constellation NewEnergy Inc., and Competitive Energy Services. In addition, several customers can form a purchase-aggregation pool for more cost-effective use of the program. (Source: *New Hampshire Business Review*, January 12, 2004)

Endless Energy Corporation and Maine Interfaith Power & Light have agreed to sell renewable energy credits from a wind turbine located at a blueberry plant in Orland, Maine. Over 1,300 state residents have signed up for the “First Wind of Maine” green tag program. The program is the first to sell power to support the construction of wind turbines in the state. (Source: *Bangor Daily News*, December 23, 2003)

CHICAGO REGION

► ***Restructuring Activities***

Wisconsin Energy Corporation may increase customer electric rates to help pay for \$600 million in pollution controls required by the Environmental Protection Agency; the decision is in response to environmental compliance failures. The company has submitted a plan to the state legislature to establish an environmental trust financing program that provides utilities low-interest loans to pay for plant pollution controls. A small charge on customers’ bills would be used to pay the interest on the loan. Utilities would save on the high interest rates charged with traditional financing. Charlie Higley of the Citizens’ Utility Board said that the plan is not in the best interest of the ratepayers. “Here we have a situation where Wisconsin Energy is being accused of failing to comply with the law and that they were negligent in the operation of their plants so that they were polluting more than they should have been... That’s management making a mistake, not the ratepayers. In that case the shareholders should take the brunt of making the improvements to comply with the law.” (Source: *Associated Press*, January 14, 2004)

DENVER REGION

► ***Restructuring Activities***

During the month of December 2003, **PPM Energy Incorporated of Portland, Oregon, commissioned 95 MW of new renewable energy capacity in the Midwest.** (Source: *BusinessWire*, December 19, 2003)

PHILADELPHIA REGION

► Restructuring Activities

The New Jersey Board of Public Utilities (BPU) proposed to raise the state's net metering limit to 2 MW for renewable energy technologies including wind, solar, fuel cells, ocean, sustainable biomass, and landfill gas. The proposed rule would also revise the interconnection standards set by the state and renewable systems covered by the rules would be interconnected at no cost. The rule would put New Jersey above California (with a one MW standard) in the amount of renewables permitted under net metering. The BPU will hold a series of meetings on this and other proposed amendments to the state's net metering and interconnection standards. For more information, contact Cassandra Kling of the BPU at cassandra.kling@bpu.state.nj.us.

On January 1, 168,500 customers of seven electric cooperatives in the State of Virginia were permitted to choose a power provider in a competitive market. The co-ops include: Central Virginia Electric Cooperative, which serves 14 counties; Prince George Electric Cooperative; A&N Electric Cooperative; Barc Electric Cooperative; Craig- Botetourt Electric Cooperative; Mecklenburg Electric Cooperative; and Northern Neck Electric Cooperative. Dominion Virginia Power, Connectiv, and Allegheny Power have competed in the open market since January 2002, however, only 2,228 of their three million customers have chosen to purchase electricity from a competitive supplier because the state has low electric rates. Ken Schrad of the State Corporation Commission said, "The opportunity is there, but the market hasn't developed as quickly as policy-makers . . . and the [state corporation] commission had hoped." The SCC has released "price to compare" rates for electric customers to compare their utility's rates with other market rates. (Source: *Richmond Times – Dispatch*, January 6, 2004)

Marina Energy in New Jersey has signed an eight-year agreement to operate a cogeneration facility at the Mannington Mills Company. Marina Energy assumed ownership and operation of the cogeneration facility consisting of three 2.8 MW Wartsilla reciprocating generators. The facility produces steam through heat recovery from engines and natural gas fired boilers. (Source: *Business Wire*, January 14, 2004)

SEATTLE REGION

► Restructuring Activities

Sempra Energy Solutions was recently awarded four energy service contracts for Federal facilities. Projects include:

- *San Diego Healthcare System (VASDHS) in San Diego* - 10-year, \$17.9 million VASDHS project to replace existing cogeneration system with one that will save the government \$19.3 million over the life of the contract; a newly installed compressed system air system will increase electric reliability.
- *VISN8 in several hospitals in Florida and Puerto Rico* - extension of a 15-year, \$12 million contract will include lighting retrofits, installation of cooling towers, upgrading ventilation and

air-conditioning, and installing water-saving heating and equipment.

- *Evans Army Community Hospital in Fort Carson, Colorado* - 20-year, \$11 million contract to move high-temperature hot-water generators closer to the hospital and house the equipment in a new insulated building to reduce heat loss; the project is projected to save \$12.7 million.
- *Hill Air Force Base in Ogden, Utah* - 20-year, \$20 million project will utilize the Super Energy Savings Performance Contract program for an Air Force installation project to retrofit lighting and install infrared heaters; the project is projected to save over \$5.8 million.

Sempra Energy Solutions President Erbin Keith said, "Sempra Energy Solutions has a long history of partnering with governmental clients to create energy strategies tailored to their specific objectives, requirements and budget...We have a team dedicated to servicing federal facilities and we hold competitively awarded regional contracts that allow our federal customers to move forward."

(Source: www.energymarketers.com)

Large-scale solar energy projects initiated by the Los Angeles Department of Water and Power (DWP) have failed to generate half of the assured electricity. A study revealed that only 45 percent of expected wattage from solar plants was fed to the utility. The Los Angeles Convention Center's two photovoltaic panels generated only 29 percent capacity and 37 percent capacity, respectively. Henry Martinez of DWP said, "The losses are extremely high with what we're picking up with these six installations...Somewhere along the line, we would have expected the energy we generate from these systems would be a lot more than what we're getting." A legislative analyst with the City of Los Angeles reported that solar power generated by DWP's green power program cost the city twice the solar power market average of 40 cents. The utility is considering reducing the incentive grants offered under the solar program. (Source: *Daily News - Los Angeles, California*, January 6, 2004)

In scheduled formal proceedings, **the Hawaii Public Utilities Commission (PUC) will investigate the effects of distributed generation on the state's electric distribution system and plans to develop a competitive bidding process to build generating capacity in the state.** The proceedings will also develop a regulatory structure to govern implementation of the proposed electric distribution system. For more information, visit the PUC's website at www.state.hi.us/budget/puc/puc.htm.

The passage of Nevada Assembly Bill 296 last year has prompted private companies with photovoltaic systems to sell excess power to Nevada Power. The law states that each kWh produced from a renewable fuel on a customer's site qualifies for 2.4 times the normal credit from that produced by a power plant. The utility can sell the power to other customers and use the credits to satisfy mandated renewables requirements. Gary Wayne of PowerLight said that the law will make the installation of solar systems more economically feasible for companies. Other incentives for installing renewable systems include the avoided loss of ten percent of power due to transmission resistance; increased reliability of smaller systems versus larger, more centralized plants; and smaller systems will have less impact on a larger system. In addition, water use will be reduced because renewable systems do not require water usage on a scale of conventional utility power plants. (Source: *Las Vegas Review-Journal*, January 9, 2004)

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PRIVATE SECTOR

GENERAL ANNOUNCEMENTS

No news of interest to report.

ATLANTA REGION

No news of interest to report.

BOSTON REGION

No news of interest to report.

CHICAGO REGION

No news of interest to report.

DENVER REGION

No news of interest to report.

PHILADELPHIA REGION

SolarWorks USA plans to install an 85-kW Solar Electric System on a South Jersey Medical Center. Recent New Jersey legislation has improved the cost of establishing solar systems. For example, with rebates, Federal tax credits, and accelerated depreciation, the system is essentially free of charge on a tax-cost basis. Additionally, SolarWorks is taking advantage of the state's net-metering program. The solar system consists of 450 of Sharp's 140 watt rectangular and 70 watt triangular modules. (Source: *SolarAccess.com News*, January 6, 2004)

SEATTLE REGION

The Climate Trust of Oregon, in a partnership with the Bonneville Environmental Foundation (BEF), has purchased 37,625 CO2 Offset Tags from BEF allowing for accelerated funding of the Pacific Northwest wind energy projects. The CO2 Offset Tags support the generation of 37,625 MWh of wind power at the Condon, Stateline, and Klondike wind farms located across Oregon and Washington. "A purchase of this size achieves two goals," said Angus Duncan, president of BEF. "It provides financial support for wind power operating today, which carries the benefit of CO2 prevention. It also contributes to a positive market for new development that will lead to more wind being installed in the future." (Source: *Clean Edge News*, December 22, 2003)

In another development, the Bonneville Environmental Foundation (BEF) has installed a new solar energy system at a public school in Castleford, Idaho. The new 1.1-kW system is the fifth addition to

the Solar for Schools program, a demonstration of solar power for schools in the Pacific Northwest area. The Castleford School's rooftop system produces live data that students are able to access and a curriculum helps students learn more about renewable energy. Idaho Power and BEF funded the project at no cost to the school through a partnership drawing on BEF Green Tag sales. Theresa Drake of Idaho Power's Green Power Program said, "We've set up a program that connects people with renewable green energy projects that mean something to them locally." The energy from the system will be incorporated into Idaho's Green Power product. The Solar for Schools program began in December 2002 with the West Salem High School in Salem, Oregon. The program has additional projects in Oregon and Washington. (Source: *SolarAccess.com News*, January 8, 2004)

Sanyo North America has commissioned two solar systems for the company's U.S. Headquarters; the project includes a 150-kW rooftop array and a 50-kW array on the adjacent carport. Electricity produced is projected to provide power to over 200 homes. The array will contain Sanyo's HIT-190 solar cell with an energy conversion rate of 18.5 percent and PowerLight's PowerGaurd solar roofing. (Source: *SolarAccess.com News*, January 14, 2004)

The Clark County Public Service Center in Vancouver, Washington, is the first in the county to earn a green designation from the U.S. Green Building Council (GBC). The GBC provided the county the organization's Leadership in Energy and Environmental Design (LEED) certification for the service center. Pete DuBois, a county waste reduction specialist said, "A lot of what we do at the county is encourage safe construction practices, issue permits ... we need to be walking our talk and lead by example." The six-story, 163,000-square-foot building is the 79th LEED-certified project in Canada and the United States. The building features large windows to let light in with fixtures that lighten and darken in response to natural light, saving an estimated \$17,000 a year in gas and electricity costs. A high-efficiency irrigation system and a well reduce water use by 20 percent. Swinerton Builders of Portland, Oregon, the general contractor, diverted more than 75 percent of the construction debris from landfills through recycling. Additionally, the contractor used adhesives low in toxic fumes. With the success of the service center, the county is planning to incorporate more green features into a planned Center for Community Health. (Source: *The Columbian* (Vancouver, WA), January 6, 2004)

Clean Water Services, a public utility committed to protecting water resources in the Tualatin River Watershed, has completed a new \$8.9 million, 41,600 square -foot complex in Hillsboro, Oregon. The new administration building was sustainably designed with \$336,000 worth of water and energy conservation features including a flushing system operated with collected rainwater, overhead lighting that automatically adjusts to natural light from windows and skylights, and board-form concrete for the walls. Clean Water Services is applying for gold-certification through the U.S. Green Business Council's LEED program. Last summer, the organization recently completed a \$5.8 million Field Operations Facility in Beaverton, Oregon. The facility features a sod roof with wildflowers and herbs and an educational display on environmentally sound methods for diverting rainwater to manmade wetlands, rock gardens, and swales instead of storm drains. (Source: *The Oregonian*, December 18, 2003)

Cerro Coso College, a California community college, has begun construction of a one -MW solar power system in Ridgecrest. WorldWater Corporation is supplying the photovoltaic system with an expected completion date of June 2004. (Source: WorldWater Corporation Press Release, December 23, 2003)

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MEETINGS, CONFERENCES, AND TRAINING **WORKSHOPS**

Refer to [Appendix E](#)– New Technologies

Refer to [Appendix F](#) – Calendar of Upcoming Events

MULTIPLE REGIONS

The Association of Energy Engineers will offer an online seminar, Fundamentals of Lighting Efficiency, on February 4. The seminar provides professional training in the design and application of energy-efficient lighting systems. For more information, go to www.aeecenter.org/training or www.aeecenter.org/realtime.

ATLANTA REGION

The North Carolina State Energy Office is sponsoring the State Energy Conference in Raleigh, North Carolina, on March 4. The conference will cover four energy tracks: utility savings, buildings, sustainability, and alternative energy and emerging technologies. For more information, visit www.energync.net.

The McAdams Group is conducting a series of workshops entitled, Funding Green Buildings: Sources & Strategies in two different locations in the Atlanta region this year. The first workshop, organized by the Alabama U.S. Green Building Council, will take place in Birmingham, Alabama, on February 27. The second workshop, organized by the Alabama USGBC Organizing Group will take place in Atlanta, Georgia on April 14. The workshop series will provide a 10-step “roadmap” for optimizing green building financing, capital campaigns, and grant writing strategies. Case studies will be presented by Jan McAdams, Director of the McAdams Group, describing approaches to the financing and fundraising process. To register, visit www.fundinggreenbuildings.com/registration.html.

The Corporate Realty, Design & Management Institute is presenting a series of workshops entitled, Anatomy of a Green Lease in 15 locations this year. One workshop will take place in Atlanta, Georgia on September 16 and will cover six topics: Where Green Adds Value; Crossfire: Open Dialogue with Green Resource Suppliers; Negotiating a Green Lease; Its Easier to be Green Than You Think; Inside the Numbers and Clauses; Tips, Tricks, and Traps; and LEED: What Owners and Tenants Need to Know. To view the schedule of 15 workshops and to register, visit www.squarefootage.net/2004_registration.htm.

BOSTON REGION

The University of Connecticut and the Electrochemical Society are sponsoring the First International Conference on Fuel Cell Development and Deployment in Storrs, Connecticut, on March 7-10. The program will consist of an exhibition hall and keynote, plenary, oral, and poster presentations. For more information, visit www.ctfuelcell.uconn.edu/fcic.

CHICAGO REGION

The Department of Energy's State Energy Program is sponsoring a Grants Management Training Class for State Energy Office Personnel in Kansas City, Missouri, on January 28-30. The class will cover grant management, Petroleum Violation Escrow (PVE) funding, and other issues unique to energy offices. For more information, visit www.eere.energy.gov/cro.

The Department of Energy is hosting Energy Smart America 2004 in Minneapolis, Minnesota, on May 11-14. The conference will provide participants with energy-saving tools and solutions, including ENERGYSTAR®, LEED, funding opportunities, codes, application standards, market barrier methodologies, successful implementation strategies, and case study models. For more information, visit www.energysmartamerica.org.

DENVER REGION

North Dakota Department of Commerce, UND Energy and Environmental Research Center, and other organizations are sponsoring the Fifth Annual Wind Energy and Rural Development Conference in Fargo, North Dakota, on February 18-19, 2004. The conference will feature an update on wind energy development in North Dakota and exhibits from regional, national, and international wind energy industry participants. For more information, visit www.undeerc.org/windy.

New Mexico Governor and Western Governors' Association (WGA) Chairman Bill Richardson (D) and Colorado Governor and WGA Vice Chairman Bill Owens (R), are organizing the North American Energy Summit in Albuquerque, New Mexico, which will be held on April 14-16. The summit will address international conflicts, the northeastern blackout, and high natural gas prices. Keynote speakers include Western governors, Canadian and Mexican officials, Tribal leaders, and U.S. Senator Pete Domenici (R/NM), Chairman of the Committee on Energy and Natural Resources. Meeting attendees will participate in breakout sessions to develop recommendations and action items. Workshops will focus on developing an efficient and reliable electricity system in the Northwest, financing infrastructure development and new technologies, developing renewable energy and increasing energy efficiency, among other topics. An agenda and registration information are available online at www.westgov.org.

The Department of Energy, the World Renewable Energy Network, the National Renewable Energy Laboratory, and other organizations are sponsoring the Eighth World Renewable Energy Congress and Expo in Denver, Colorado on August 28-September 3, 2004. The conference will cover nine tracks: policy issues, photovoltaic technology and applications, solar thermal technology and applications, wind energy conversion and electricity, biomass for energy and materials, low energy architecture, solar materials technology, hydrogen and fuel cell systems, and geothermal power. For more information, visit www.nrel.gov/wrec.

PHILADELPHIA REGION

Building Operating Management and Maintenance Solutions is organizing the National Facilities Management and Technology Conference in Baltimore, Maryland, on March 9-11, 2004. The conference has eight title sessions: Utilities as a Source of Operating Cost Savings; Energy Agenda 2004/2005; Green Lighting Trends and Techniques; No-cost, Low-cost Energy Savings; Conserving Energy Dollars: Looking Behind, Beside, and Beyond the Meter; Boiler Efficiency Ratings; You Can

Save Energy in a Data Center; and Improving HVAC Effectiveness in a New Building. To register online, visit www.nfimt.com.

The Department of Energy's Philadelphia Regional Office is sponsoring a series of eight workshops entitled, "Technical and Financial Assistance to Improve the Energy Efficiency of Federal Facilities" in February, March, and April. The focus of the workshop series is to provide Federal officials with tools to design, finance, implement, and manage Federal buildings and operations by implementing Energy Savings Performance Contracting. The workshop scheduled includes: February 19 in Philadelphia, Pennsylvania; February 24 in Newark, New Jersey; February 26 in Dover, Delaware. In March workshop will be held on March 4 in Richmond, Virginia; March 9 in Baltimore, Maryland; March 18 in Washington, D.C.; and March 23 in Pittsburgh, Pennsylvania. The last workshop will be held on April 1 in Charleston, West Virginia. For more information, visit www.eere.energy.gov/femp/newsevents/calendar.shtml.

SEATTLE REGION

National Hydrogen Association and Hydrogen Expo USA are sponsoring Hydrogen: A Clean Energy Choice, in Los Angeles, California, on April 26-30. The conference will provide an analysis on hydrogen with an emphasis on economics, energy efficiency, and emissions. For more information, visit www.hydrogenconference.org.

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STUDIES, REPORTS, AND ANALYSES

ENERGY AND WATER CONSERVATION

New Apollo Project, The Apollo Alliance, January 2004

The project outlines a ten-year investment strategy to build clean energy technology and infrastructure to promote energy independence. Supported by labor, environmental, civil rights, business, and political leaders, including the Sierra Club, the Natural Resources Defense Council, the Union of Concerned Scientists, and Greenpeace. The program is designed to create 3.3 million jobs and pay for itself in resulting energy savings. Study author Ray Perryman said, "If economists agree on anything it's that inventing new technologies and creating whole new industries is what America does best. We are a creative economy, not a commodity economy. The New Apollo Project would keep us on the cutting edge of manufacturing emerging technologies and secure our long-term prosperity." For more information, visit www.apolloalliance.org.

Investment Grade Energy Audit, Association of Energy Engineers, January 2004

The book provides energy professionals tools to accurately predict a building's future energy use and savings potential and provides guidelines on utilizing the investment grade audit (IGA). IGA is covered in detail including risk management, the "people" factor, measurement and verification, financing issues,

report presentation guidelines, and master planning strategies. For more information, visit www.aeecenter.org/books.

Information Technology for Energy Managers, Association of Energy Engineers, January 2004

The book covers basic concepts and principles of information technology for energy managers. Facts and information are provided to successfully purchase, install and operate complex web-based energy information and control systems. For more information, visit www.aeecenter.org/books.

The Funding Green Buildings Toolkit, The McAdams Group, FundingGreenBuildings.com, January 2004

The book describes more than 150 sources of grant funds, loans, and creative partnership strategies for commercial green buildings. Checklists for developing a capital campaign and grant applications are included. A list of technical resources and organizations on green buildings is also provided. For more information, visit www.fundinggreenbuildings.com/fundingtoolkit.html.

UTILITY-RELATED ISSUES

Automated Meter Reading (AMR) Report on Cost and Savings, Chartwell, Inc. January 2004

The 34-page report, using data compiled from AMR surveys of over 100 utilities, reveals that the cost of AMR technology has leveled off. Report data includes price estimates for AMR technologies, including powerline carrier, wireless fixed network, mobile (drive-by) and phone-based systems. The report includes case studies of savings that utilities using AMR have gained, including savings related to transmission and distribution planning, generation expansion, demand response and load forecasting, power quality monitoring, outage notification and load profile data services. To order the report, visit www.energylibrary.com.

FEDERAL FACILITY

Calibrating Building Energy Solutions, Energy User News, November 2003

The article provides an explanation of how to simulate a baseline of energy use on buildings at military bases lacking utility meters. Conservation features can be incorporated into the simulations to determine potential energy saved as a result of installing the energy savings features.

www.energyusernews.com/CDA/ArticleInformation/features/BNP_Features_Item/0,2584,113209,00.html.

MISCELLANEOUS

Budget Issues: Agency Implementation of Capital Planning Principles is Mixed, General Accounting Office (GAO), January 2004

In response to a request from the Chairman of the House Subcommittee on Government Efficiency and Financial Management, GAO evaluated the \$100 billion in capital investments made by the Federal Government in fiscal year 2002. The authors state that the investment will yield long-term benefits in Federal Government operations. GAO evaluated agency experiences based on capital planning

principles, as defined in the Office of Management and Budget's *Capital Planning Guide* and GAO's *Executive Guide* on leading state, local, and private sector capital investment practices. The report's author discussed assessments for the Veterans Affairs (VA), the National Park Service, the Bureau of Prisons and the National Oceanic Atmospheric Administration and states that, "The agencies' capital planning processes generally link to their strategic goals and objectives and they all consider a range of alternatives to bridge and identified performance gap. Most have established processes to review and select from competing project proposals. However, case study agencies have had limited success with using agency wide asset inventory systems and data on asset condition to identify performance gaps. Also, none of them prepares an agency-wide long-term capital investment plan." To view the report, go to www.gao.gov. Report number is GAO-04-138.

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APPENDIX A

NEW LEGISLATION OF INTEREST TO FEMP

HOUSE

No legislation of interest to report.

SENATE

Number	Short title	Date	Sponsor	Status
S. 2014	<i>Electric Reliability Act of 2004</i>	1/24/04	Maria Cantwell (D/WA) ➤	Referred to Committee on Energy and Natural Resources
<p>Amends Part II, SEC. 215. Electric Reliability, of the <i>Federal Power Act</i>.</p> <p>Authorizes FERC jurisdiction over each electric reliability organization (ERO), regional entity, user, owner, and operator of a bulk-power system to approve reliability standards and enforcing compliance.</p> <p>ERO shall file proposed reliability standard or modification to reliability standard with FERC.</p> <p>ERO shall file for approval any proposed rule or proposed rule change. FERC may propose change to ERO rules.</p> <p>ERO shall conduct periodic assessments of the reliability and adequacy of interconnected bulk-power system in North America.</p> <p>ERO shall have authority to develop and enforce compliance with standards for reliable operation of bulk-power system. ERO shall not order the construction of additional generation or transmission capacity or establish and enforce compliance with standards for adequacy or safety of electric facilities or services.</p> <p>Does not preempt state authority to ensure safety, adequacy, and reliability of electric service.</p> <p>Within 90 days after the filing, FERC shall issue a final order determining whether state action is inconsistent with reliability standard.</p> <p>FERC shall establish a regional advisory body to provide advice to ERO regarding an existing or proposed regional reliability entity within the same region; whether a proposed standard proposed is just, reasonable, not unduly discriminatory or preferential, and in public interest; and whether fees are just, reasonable, not unduly discriminatory, and in public interest.</p> <p>Section does not apply to Alaska or Hawaii.</p>				

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APPENDIX B

HEARINGS SCHEDULE

HOUSE – APPROPRIATIONS

Date/Committee	Chair	Hearing Title/Issues	Witnesses	Time/Location
February 25 – Full Committee <i>(NEW)</i>	Bill Young (R/FL)	Hearing – <i>FY 2004 Appropriations for Interior and Related Agencies</i>	Secretary Gale Norton, Department of the Interior	10:00 a.m. Room B-308 Rayburn Office Building
February 26 – Full Committee <i>(NEW)</i>	Bill Young (R/FL)	Hearing – <i>FY 2004 Appropriations for Interior and Related Agencies</i>	Secretary Spencer Abraham, Department of Energy	10:00 a.m. Room B-308 Rayburn Office Building

HOUSE – AUTHORIZATIONS/OVERSIGHT

Date/Committee	Chair	Hearing Title/Issues	Witnesses	Time/Location
February 4 – Committee on Veteran’s Affairs <i>(NEW)</i>	Christopher Smith (R/NJ)	Hearing – President’s proposed FY 2005 budget for the Department of Veteran’s Affairs	TBA	10:00 a.m. Room 334 Cannon Office Building

SENATE – APPROPRIATIONS

No hearings of interest scheduled.

SENATE – AUTHORIZATIONS/OVERSIGHT

No hearings of interest scheduled.

CONFERENCE COMMITTEE NEGOTIATIONS/FLOOR VOTES

No activities of interest scheduled.

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APPENDIX C

NEW TECHNOLOGIES

For informational purposes only. Listing does not imply endorsement.

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
HVAC			
E-Tech R106K-5 Residential Heat Pump Water Heater	Applied Energy Recovery Systems	Improved for easier installation, maintenance, and service. Extracts and upgrades low-grade heat and converts as energy to heat water up to 130 degrees F. Also used as free cooling and dehumidification for basements, garages, and workshops.	www.aeretech.com
QuietCool QC-1500 Whole-house Fan and Ventilation System	West Connection Enterprises	System connected to ceiling diffuser with flexible insulated duct eliminating vibration, rattle, and noise in the house. Easier installation and less time to set up than typical whole-house fan.	www.quietcoolfan.com
WeatherTrace™ Heat Trace Control Panels	Chromalox, Inc.	4 single-door, wall-mount enclosures for indoor and outdoor applications. Panels consist of flexible power distribution, ground fault protection, circuit alarms, line sensing, and ambient sensing controls. Offers alarms that indicate a ground fault or overload condition. Identifies faulty circuits via a display on the front enunciator panel.	www.mychromalox.com
Nighthawk Power Gas Burner – LC1000 and LC2000	Wayne Combustion Systems	Applications include boilers, indirect heating, hot water heaters, and process heating. LC1000 and LC2000 provide 1.4 and 2.3 MBtuh respectively. Energy efficient and operates with minimum noise.	www.waynecombustion.com

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
LIGHTING			
Impact T4 Line	Amerlux Lighting Systems	Energy-efficient lighting fixture utilizes latest lamp and miniature electronic ballast technology for applications in retail, supermarket, commercial, and hospitality markets. Provides up to 150 W of lighting and reduces energy costs by 70%	www.amerlux.com
Electronic Ballasts	Holophane	Can be used with 320-, 350-, and 400-watt metal halide lamps. Advantages include silent operation, color stability, and flicker-free illumination. Increases mean lumen output by 15%.	www.holophane.com
ENERGY MANAGEMENT TOOLS			
HVAC/R Training Manual 3 Interactive CD-ROM Program	Refrigeration Service Engineers Society	Provides instructions on heat pump theory and water-source heat pumps. Other topics include computer room environmental control, water treatment, control maintenance and other key topics. Provides refrigeration service engineers a comprehensive study for obtaining Certificate Member (CM) status.	www.rses.org
HLP-10 HyperLogger PowerPlus Data Logging System	LOGIC BEACH Inc.	Monitors and records an air compressor's power data, pressure, mass air flow, and other compressor parameters. Provides energy-efficiency improvements of 20-50%. Sensor inputs allows for analysis of energy consumption.	www.logicbeach.com
HOBO U12 Data Loggers	Onset Computer Corp.	Measure temperature, relative humidity, light intensity, and other indoor environmental conditions. Applications include HVAC performance troubleshooting, indoor air quality monitoring, storage monitoring, and energy studies.	www.onsetcomp.com/index.html
MISCELLANEOUS			
Power Factor Optimization	Wyes Energy, Inc.	Patented application of capacitors installed at each load to optimize power factor. Offers overall energy savings, for the customer and the utility. Provides reductions in Watts, KVA, Amps and KVAR and maintains Volts and Amps from the optimizer at rated values. Provides added capacity to the utility and the consumer.	www.wyesenergy.peachhost.com

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
Cat G3520C 1200 rpm Version Natural-gas-fueled Generator Set	Caterpillar Inc.	Offers high fuel efficiency, low maintenance, and reduced operating costs in extended-duty distributed generation and cogeneration applications.	www.caterpillar.com

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APPENDIX D

MEETINGS, CONFERENCES, AND OTHER EVENTS

NOTE: New events are highlighted in **blue**.
DOE-sponsored events are highlighted in **green**.

FEMP Training Calendar: www.eere.energy.gov/femp/newsevents/training.shtml

GENERAL ANNOUNCEMENTS

DATE	EVENT	SPONSOR
February 4, 2004	Fundamentals of Lighting Efficiency Online Seminar	Association of Energy Engineers

ATLANTA REGION

DATE	EVENT	SPONSOR
February 3, 2004	Green Power Options Ft. Lauderdale, FL	Green Power magazine
February 10-11, 2004	Sixth Annual Energy Management Workshop Cocoa, FL	Florida Solar Energy Center
February 27, 2004	Funding Green Buildings: Sources & Strategies Birmingham, Alabama	FundingGreenBuildings.com & Alabama U.S. Green Building Council
March 4, 2004	State Energy Conference Raleigh, NC	North Carolina State Energy Office
March 18-19, 2004	GREENPRINTS Conference & Tradeshow Atlanta, GA	Department of Energy
April 14, 2004	Funding Green Buildings: Sources & Strategies Atlanta, Georgia	FundingGreenBuildings.com & Georgia Tech University
May 2-5, 2004	10 th Annual National Clean Cities Conference Fort Lauderdale, Florida	Department of Energy
September 16, 2004	Anatomy of a Green Lease Workshop Atlanta, GA	The Corporate Realty, Design, & Management Institute

BOSTON REGION

DATE	EVENT	SPONSOR
March 7-10, 2004	First International Conference on Fuel Cell Development and Deployment Storrs, CT	Connecticut Global Fuel Cell Center
March 9-10, 2004	GLOBALCON 2004 Boston, MA	FEMP

DATE	EVENT	SPONSOR
March 10-13, 2004	NESEA Building Energy Conference Boston, MA	Northeast Sustainable Energy Association and Massachusetts Technology Collaborative
July 20-22, 2004	FedFleet 2004: The Road to the Future is Now New York, NY	General Services Administration and the Federal Fleet Policy Council
September 9, 2004	Anatomy of a Green Lease Workshop Boston, MA	The Corporate Realty, Design, & Management Institute

CHICAGO REGION

DATE	EVENT	SPONSOR
March 28-31, 2004	Global WINDPOWER 2004 Chicago, IL	American Wind Energy Association
April 12-13, 2004	EnvironDesign@8 Minneapolis, MN	Twin Cities of Minneapolis/St. Paul
April 29, 2004	Anatomy of a Green Lease Workshop Detroit, MI	The Corporate Realty, Design, & Management Institute
April 30, 2004	Anatomy of a Green Lease Workshop Cleveland, OH	The Corporate Realty, Design, & Management Institute
May 11-14, 2004	Energy Smart America 2004: Tools and Solutions for States and Communities Minneapolis, MN	Department of Energy
July 28, 2004	Anatomy of a Green Lease Workshop Minneapolis, MN	The Corporate Realty, Design, & Management Institute

DENVER REGION

DATE	EVENT	SPONSOR
February 18-19, 2004	Wind Energy and Rural Development in North Dakota Fargo, ND	North Dakota Department of Commerce, UND Energy and Environmental Research Center and other organizations
March 14-16, 2004	National Green Building Conference Austin, TX	Builder Magazine, Partnership for Advancing Technology in Housing and Maryland Energy Administration
March 23-24, 2004	Advanced ESPC/Financing Golden, CO	FEMP
April 14-16, 2004	North American Energy Summit Albuquerque, New Mexico	Western Governors' Association
July 26, 2004	Anatomy of a Green Lease Workshop Kansas City, MO	The Corporate Realty, Design, & Management Institute

DATE	EVENT	SPONSOR
August 28-September 3, 2004	World Renewable Energy Congress VIII and Expo Denver, Colorado	DOE and others
October 5, 2004	Anatomy of a Green Lease Workshop Houston, TX	The Corporate Realty, Design, & Management Institute
October 27, 2004	Anatomy of a Green Lease Workshop Denver, CO	The Corporate Realty, Design, & Management Institute

PHILADELPHIA REGION

DATE	EVENT	SPONSOR
February 19, 2004	Technical And Financial Assistance To Improve The Energy Efficiency Of Federal Facilities Philadelphia, PA	DOE's Philadelphia Regional Office
February 24, 2004	Technical And Financial Assistance To Improve The Energy Efficiency Of Federal Facilities Newark, NJ	DOE's Philadelphia Regional Office
February 26, 2004	Technical And Financial Assistance To Improve The Energy Efficiency Of Federal Facilities Dover, DE	DOE's Philadelphia Regional Office
March 4, 2004	Technical And Financial Assistance To Improve The Energy Efficiency Of Federal Facilities Richmond, VA	DOE's Philadelphia Regional Office
March 9, 2004	Technical And Financial Assistance To Improve The Energy Efficiency Of Federal Facilities Baltimore, MD	DOE's Philadelphia Regional Office
March 9-11, 2004	National Facilities Management and Technology Baltimore, MD	Building Operating Management & Maintenance Solutions
March 18, 2004	Technical And Financial Assistance To Improve The Energy Efficiency Of Federal Facilities Washington, D.C.	DOE's Philadelphia Regional Office
March 23, 2004	Technical And Financial Assistance To Improve The Energy Efficiency Of Federal Facilities Pittsburgh, PA	DOE's Philadelphia Regional Office
April 1, 2004	Technical And Financial Assistance To Improve The Energy Efficiency Of Federal Facilities Charleston, WV	DOE's Philadelphia Regional Office
June 27-30, 2004	2004 Future Car Congress Washington, D.C.	DOE and United States Council for Automotive Research
September 13, 2004	Anatomy of a Green Lease Workshop Washington, D.C.	The Corporate Realty, Design, & Management Institute

DATE	EVENT	SPONSOR
September 15, 2004	Anatomy of a Green Lease Workshop Washington, D.C.	The Corporate Realty, Design, & Management Institute

SEATTLE REGION

DATE	EVENT	SPONSOR
February 13, 2004	Funding Green Buildings: Sources & Strategies Phoenix, AZ	FundingGreenBuildings.com and the American Institute of Architects
March 1-3, 2004	POWER-GEN Renewable Energy Conference Las Vegas, NV	American Council on Renewable Energy
April 26-30, 2004	Hydrogen: A Clean Energy Choice Los Angeles, CA	National Hydrogen Association & Hydrogen Expo USA
June 3-4, 2004	Greening Rooftops for Sustainable Communities Portland, OR	City of Portland, Oregon and Green Roofs for Healthy Cities
June 3, 2004	Anatomy of a Green Lease Workshop Seattle, WA	The Corporate Realty, Design, & Management Institute
June 5, 2004	Anatomy of a Green Lease Workshop Vancouver, B.C.	The Corporate Realty, Design, & Management Institute
July 10-14, 2004	SOLAR 2004 Portland, OR	Department of Energy, Energy Trust of Oregon, and Eugene Water and Electric Board
October 7, 2004	Anatomy of a Green Lease Workshop Phoenix, AZ	The Corporate Realty, Design, & Management Institute
October 11, 2004	Anatomy of a Green Lease Workshop San Francisco, CA	The Corporate Realty, Design, & Management Institute
October 14, 2004	Anatomy of a Green Lease Workshop Los Angeles, CA	The Corporate Realty, Design, & Management Institute

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